

Date: Fri, 23 Jul 93 13:46:18 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #892
To: Info-Hams

Info-Hams Digest Fri, 23 Jul 93 Volume 93 : Issue 892

Today's Topics:

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 Amateur Radio public service
 ARRL New England Division Convention
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 Collins repair guy
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 How does an American sign in Canada?
 Intermodulation
 KH6 on 160m
 ORBS\$205.2liners
 Radio Shack stuff for less ?
 STILL waiting for your license? Read this and weep!
 Super Morse problem in Windows (2 msgs)
 TS50 Illegal!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 23 Jul 93 15:09:44 GMT
From: news-mail-gateway@ucsd.edu
Subject: 4U1WB - What Country Is It???
To: info-hams@ucsd.edu

I recently got a card back from a contact with 4U1WB, the World Bank
headquartered in Washington, DC. My question is: for DXCC purposes does this

73 de N7YQR Ed

[stuff deleted]

>CUL es 73 de BB

Generally, I think that Brian has made some good arguments. However, I question whether must hams are really trained properly for handling emergencies either at the tactical level or even H & W. To ensure that

things work properly at the time of an emergency scenario driven training incorporating the elements of the "total emergency network" has to be done. Only a small number of hams actually take part in this type training. Many of the hams and official emergency agencies don't even properly communicate and coordinate.

Even the ham portion of the emergency network is not properly exercised in many places. Some hams tell me that field day is the vehicle for such training. However, I have to say that field day has been become nothing by a QSO contest. Establishing training for emergency communications based on field day experiences is not even remotely feasible. About the only thing is shows is the time it takes to find all the equipment (radios, cables, antennas, generators, etc) to even begin the process of setup. For many clubs, it takes most of the year to plan for the field day.

More hams really should become part of the official ham emergency groups. More hams involved with these groups would mean a larger pool of really trained people.

Erich
N3OXM

Date: 22 Jul 1993 14:06:18 GMT
From: agate!howland.reston.ans.net!noc.near.net!news.bbn.com!bbn.com!
levin@ames.arpa
Subject: ARRL New England Division Convention
To: info-hams@ucsd.edu

lee@tosspot.sv.com (Lee Reynolds) writes:

|....are the testing sessions going to be walk-in?

Yes. (I'll be helping out there.) You might want to come early (things start at 8:00 am), as I think they will be assigning slots for CW tests; I believe they will only have a certain number of seats available or code tests.

/JBL

=

Nets: levin@bbn.com | "GO TO JAIL. Go directly to jail. Do not pass
POTS: (617)873-3463 | Go. Do not collect \$200."
KD10N (@KB4N.NH.USA) | -- Parker Brothers

Date: 22 Jul 93 13:52:27 EDT

From: psinntp!ar1.org@uunet.uu.net
Subject: Call For Papers
To: info-hams@ucsd.edu

>>>>>>>>>> A Call for Articles <<<<<<<<<<<<

Summertime is the time when we usually experience a slump in incoming articles. Naturally, practically everyone has found something to do outdoors (be it recreational or not), so bench work and writing drop a notch or two on the priority ladder. This year is no different from the earlier ones.

We're in need of some good material for upcoming issues of QST. Have you got anything on the workbench, in the computer or coming together in your head that you can send our way? We'd be happy to see it! We're especially interested in simple and engaging projects that are relatively inexpensive (\$200 or less

If you'd like a copy of our Authors' Guide, please call, fax, write, or e-mail the Technical Department Secretary (voice: 203-666-1541, ext 278; fax (24 hours) 203-665-7531; e-mail bdicosim@arrl.org. Our address is:

Technical Department Secretary
American Radio Relay League
225 Main Street
Newington, CT 06111

Some folks don't know it, but we **do** pay for articles. You may not get rich writing for us (although some of our authors have done **quite** well selling kits and assembled and tested units), but the extra money does come in handy!

Thanks for your consideration.

Sincerely,

Paul Page1/N1FB

NOTE: This announcement was posted on Paul's behalf. If you have questions or comments, send them to sford@arrl.org and I will relay.

Date: Thu, 22 Jul 1993 16:31:07 GMT
From: utcsri!utnut!torn!csd.unb.ca!news.ucs.mun.ca!kean.ucs.mun.ca!
jcraig@uunet.uu.net
Subject: Canadian DXCC applications...
To: info-hams@ucsd.edu

Before the merger of CRRL and CARF, you had to be either a member of CRRL or ARRL to apply for the DXCC awards. Is membership in the newly formed RAC sufficient, or do all Canadians now have to join ARRL to apply for a DXCC?

Joe, V01NA

Date: 22 Jul 93 10:12:34 GMT
From: ogicse!uwm.edu!cs.utexas.edu!usc!howland.reston.ans.net!ux1.cso.uiuc.edu!
not-for-mail@network.ucsd.edu
Subject: Collins repair guy
To: info-hams@ucsd.edu

I lost the return on the people who wanted a collins repair/expert type. Anyway: Bud Whitney, 121 Hill Country Trail Wimberly TX 78676

Date: 22 Jul 93 14:10:48 GMT
From: gatech!howland.reston.ans.net!wupost!crcnis1.unl.edu!cse!krings@RUTGERS.EDU
Subject: cordless phones 46-49MHz in Europe?
To: info-hams@ucsd.edu

In the USA cordless phones operate in the 46-49MHz band. Is this the same in Europe, or does one have to worry, that, if you bring a cordless phone to i.e. Germany, someone in the neighborhood can pick up your signal on certain appliances.

What are the frequencies assigned to cordless phones in germany?

I remember having an H&H guitar amp that picked up CB, due to incompatibility about 15 years ago. ---- would hate to be on the phone finding out that my neighbor is picking the signal up on his VCR when in video-text mode etc!

Thanks for any response
Axel

Date: 22 Jul 93 22:42:38 GMT
From: ogicse!hp-cv!hp-pcd!hpspkla!depaul@network.ucsd.edu
Subject: CW, CW everywhere!!!
To: info-hams@ucsd.edu

Damn Randy (Ka1unw), your pile-up remark almost made me wet my pants...I

was laughing so hard!!!!

Keep it up!

Marc DePaul

Date: 22 Jul 1993 15:27:30 GMT
From: drt@athena.mit.edu
Subject: How does an American sign in Canada?
To: info-hams@ucsd.edu

1. On subbands - can Canadians use phone down to 14.100?
2. Is it still the case that you have to be a Canadian citizen or landed immigrant to get a Canadian license?

-drt

--

David R. Tucker KG2S drt@athena.mit.edu

|'Most political sermons teach the congregation nothing except |
what newspapers are taken at the Rectory.' -C.S. Lewis

Date: Thu, 22 Jul 1993 18:59:01 GMT
From: news.cerf.net!crash!newshub.nosc.mil!dog.ee.lbl.gov!overload.lbl.gov!agate!
msuinfo!uwm.edu!cs.utexas.edu!asuvax!ncar!csn!col.hp.com!news.dtc.hp.com!srigenprp!
alanb@network.ucsd.edu
Subject: Intermodulation
To: info-hams@ucsd.edu

Kevin Purcell, Rho (a-kevinp@microsoft.COM) wrote:

: In response to Bob Myers' KCOEW post where he says a mixer must have a
: non-linear component I respond:

: Q: Where are the non-linear components in a doubly balanced diode or
: Gilbert cell mixer?

This thread is starting to get a little arcane, but what the heck, there
are those of us who enjoy arguing how many fairies can you get on the
head of a pin. :=)

In a linear system, the output is always a scaled and offset version

of the input: $V_{out} = (A \times V_{in}) + B$. One property of linear systems is that no frequencies (other than 0 Hz DC) can appear at the output that were not present at the input.

In a perfect mixer, the output is the product of the two inputs:
 $V_{out} = A \times V_{rf} \times V_{lo}$ (V_{rf} = rf input signal and V_{lo} = local oscillator signal). Clearly, in one sense, this is not a linear system. For example, if you feed the same signal into both inputs ($V_{lo} = V_{rf}$) the output is $V_{out} = A \times V_{rf}^2$. If V_{rf} is a signal of frequency F you will get out frequencies of F and $2F$. (Proof left as an exercise for the reader :=)

However it is more accurate to describe an ideal mixer as a linear, but TIME-VARYING, system. The equation $V_{out} = (C \times V_{rf})$ holds AT ANY INSTANT OF TIME, because at any instant of time, V_{lo} can be considered a constant: $C = A \times V_{lo}$.

For example, a diode double-balanced mixer can be viewed as a switch, where the polarity of the rf signal is switched at a rate determined by the lo signal. You could implement a very LINEAR, low-distortion but low-frequency mixer by using fast, bounceless relays as the switch elements instead of diodes. The relays are either on (0 ohms) or off (infinity ohms) and have no non-linear region. A truly linear mixer!

A diode mixer tries to emulate this condition by switching the diodes on and off as hard as possible. That's why high drive levels are important for low distortion.

AL N1AL

Date: Thu, 22 Jul 1993 18:22:56 GMT
From: news.Hawaii.Edu!hale!hlivak@ames.arpa
Subject: KH6 on 160m
To: info-hams@ucsd.edu

I had previously sent out the following info:

KH6 on 160m. KH6DD and others will attempt to activate Hawaii on 160m
on July 23 starting at 0800Z (early Friday morning eastern time). The
group will have access to an AM broadcast tower scheduled for demolition.
Look for the group on 1831 kHz this one night only.

Due to one of the bigger lightning shows to illuminate Honolulu in recent history, things have changed:

KH6DD on 160m Postponed. The fact that the broadcast tower beacon was

disabled by a lightning strike and other logistical considerations have set back plans by one day. Now look for Hawaii on the Top Band on July 24 starting at 0800Z (early Saturday morning eastern time) on 1831 kHz.

It's not the best time of year and all that, but the tower is only available now.

Regards, Bob Hlivak NH6X0

Date: 23 Jul 93 17:04:31 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$205.2liners
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-205.N
2Line Orbital Elements 205.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM N3FKV HEWITT, TX July 24, 1993
BID: \$ORBS-205.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83 58 B 93200.18785409 .00000027 00000-0 99999-4 0 97
2 14129 27.0768 15.1878 6022626 98.7005 329.8696 2.05880809 75928

UO-11

1 14781U 84 21 B 93198.60902225 .00000253 00000-0 46920-4 0 4251
2 14781 97.8099 223.6595 0010545 263.2244 96.7762 14.69026926501182

RS-10/11

1 18129U 87 54 A 93199.50757804 .00000088 00000-0 89554-4 0 6327
2 18129 82.9227 215.4592 0010367 225.8425 134.1868 13.72320353304148

AO-13

1 19216U 88 51 B 93202.33713546 -.00000269 00000-0 99999-4 0 6230
2 19216 57.8903 304.6158 7223772 320.1229 4.9105 2.09727230 39079

FO-20

1 20480U 90 13 C 93201.62045726 -.00000008 00000-0 98486-5 0 4516
2 20480 99.0326 51.4678 0541409 10.9621 350.2744 12.83220462161607

AO-21

1 21087U 91 6 A 93202.62536230 .00000085 00000-0 82656-4 0 8158

2 21087 82.9405 27.3398 0034082 286.8119 72.9281 13.74521997124174
 RS-12/13
 1 21089U 91 7 A 93194.70011642 .00000011 00000-0 53034-5 0 4104
 2 21089 82.9221 262.4530 0029590 334.4617 25.5075 13.74023985122169
 ARSENE
 1 22654U 93 31 B 93171.50001791 -.00000049 00000-0 99999-4 0 117
 2 22654 1.1154 126.6985 2945839 142.5535 241.8895 1.42200091 629
 UO-14
 1 20437U 90 5 B 93200.26473020 .00000065 00000-0 33187-4 0 7588
 2 20437 98.6135 284.1842 0011997 86.8343 273.4178 14.29782897182019
 AO-16
 1 20439U 90 5 D 93200.26347958 .00000047 00000-0 26013-4 0 5634
 2 20439 98.6210 285.0949 0012487 88.0964 272.1649 14.29841825182028
 DO-17
 1 20440U 90 5 E 93200.31985796 .00000058 00000-0 30297-4 0 5653
 2 20440 98.6215 285.3710 0012509 87.3715 272.8894 14.29978118182042
 WO-18
 1 20441U 90 5 F 93200.77960521 .00000061 00000-0 31394-4 0 5678
 2 20441 98.6216 285.8500 0013084 86.6248 273.6431 14.29957691182115
 LO-19
 1 20442U 90 5 G 93200.77943508 .00000078 00000-0 37798-4 0 5644
 2 20442 98.6215 286.0309 0013252 84.8513 275.4181 14.30048277182123
 UO-22
 1 21575U 91 50 B 93200.69628709 .00000073 00000-0 31559-4 0 2637
 2 21575 98.4714 276.2830 0007013 195.8075 164.2889 14.36839639105331
 KO-23
 1 22077U 92 52 B 93199.53163862 .00000000 00000-0 99999-4 0 1071
 2 22077 66.0764 258.5539 0003204 181.1709 178.9304 12.86279536 43875
 NOAA-9
 1 15427U 84123 A 93203.61178270 .00000099 00000-0 63228-4 0 4196
 2 15427 99.0984 244.4018 0016068 69.2119 291.0768 14.13533173443782
 NOAA-10
 1 16969U 86 73 A 93203.60313311 .00000126 00000-0 62419-4 0 2628
 2 16969 98.5163 217.5657 0012353 209.1588 150.8897 14.24822967355674
 MET-2/17
 1 18820U 88 5 A 93200.27227550 .00000024 00000-0 16339-4 0 8759
 2 18820 82.5421 173.3941 0018665 38.2724 321.9757 13.84688369276288
 MET-3/2
 1 19336U 88 64 A 93194.02258664 .00000043 00000-0 99999-4 0 477
 2 19336 82.5404 203.6663 0018698 29.0963 331.1196 13.16959778238614
 NOAA-11
 1 19531U 88 89 A 93204.14367337 .00000106 00000-0 67376-4 0 1705
 2 19531 99.1338 180.6530 0011977 343.0478 17.0260 14.12898523248756
 MET-2/18
 1 19851U 89 18 A 93203.06277606 .00000053 00000-0 42196-4 0 8130
 2 19851 82.5177 47.1178 0015955 73.4229 286.8683 13.84340304222014
 MET-3/3
 1 20305U 89 86 A 93204.00035551 .00000043 00000-0 99999-4 0 7228

2 20305 82.5532 139.6110 0017244 29.6502 330.5594 13.16022231179816
MET-2/19
1 20670U 90 57 A 93194.86381434 .000000051 00000-0 40357-4 0 5657
2 20670 82.5475 117.2064 0017332 21.4305 338.7556 13.84178382153810
FY-1/2
1 20788U 90 81 A 93202.95994659 -.000000284 00000-0 -17731-3 0 6013
2 20788 98.8640 228.2729 0015396 205.0326 155.0112 14.01304639147453
MET-2/20
1 20826U 90 86 A 93194.64633721 .000000071 00000-0 59251-4 0 5696
2 20826 82.5253 55.3406 0012108 282.2356 77.7447 13.83554704140942
MET-3/4
1 21232U 91 30 A 93201.55182390 .000000043 00000-0 99999-4 0 3711
2 21232 82.5400 44.1390 0017838 313.1818 46.7812 13.16823044107710
NOAA-12
1 21263U 91 32 A 93204.04579165 .000000198 00000-0 97428-4 0 6274
2 21263 98.6554 233.4809 0013919 107.7971 252.4736 14.22289791113747
MET-3/5
1 21655U 91 56 A 93203.68290353 .000000043 00000-0 99999-4 0 4411
2 21655 82.5514 349.4389 0013548 307.1873 52.8011 13.16822717 93092
HUBBLE
1 20580U 90 37 B 93202.72201235 .000000401 00000-0 30601-4 0 1498
2 20580 28.4702 201.6924 0004620 49.8483 310.2527 14.92764691176689
GRO
1 21225U 91 27 B 93203.68922503 .00020228 00000-0 13290-3 0 9456
2 21225 28.4617 37.7472 0006559 340.0746 20.0141 15.74016493 5712
TUBSAT
1 21577U 91 50 D 93202.22134203 .000000020 00000-0 13737-4 0 2675
2 21577 98.4712 277.3341 0005343 194.9997 165.1031 14.36384974105524
SARA
1 21578U 91 50 E 93201.76528633 .000000336 00000-0 12344-3 0 4379
2 21578 98.4773 278.6625 0004689 188.9829 171.1269 14.38478161105557
UARS
1 21701U 91 63 B 93200.01088054 .000003225 00000-0 30078-3 0 2503
2 21701 56.9851 53.9191 0005151 111.3468 248.8116 14.96716847101062
FREJA
1 22161U 92 64 A 93200.02067341 -.000000071 00000-0 -10985-4 0 1416
2 22161 63.0018 55.2777 0770836 285.6210 66.1091 13.21648330 37767
/EX

Date: 22 Jul 93 17:11:18 GMT
From: caen!msuinfo!netnews.upenn.edu!netnews.noc.drexel.edu!coe.drexel.edu!
lorelei.ece.drexel.edu!amit@uunet.uu.net
Subject: Radio Shack stuff for less ?
To: info-hams@ucsd.edu

Someone asked me to post this question for him. Please send your replies directly to my email address.

There supposedly was a posting in this group about a company which sells stuff very similar to what Radio Shack carries, but for lower prices. Does anyone know the name, address and phone number of that company ?

Thanks,

Amit Cohen <amit@lorelei.ece.drexel.edu>

Date: 22 Jul 93 20:39:50 GMT

From: psinntp!arrl.org@uunet.uu.net

Subject: STILL waiting for your license? Read this and weep!

To: info-hams@ucsd.edu

In rec.radio.amateur.misc, alanb@sr.hp.com (Alan Bloom) writes:

>I think the ARRL is crazy to agree to take over licensing of club
>stations, as the FCC has proposed. They will get little or no
>thanks from those who use the service and will have to suffer the
>slings and arrows of outrageous indignation from anyone who feels
>their service was not up to snuff.

So what? You do things because they need to be done, not for the perceived glory.

Jon Bloom, KE3Z | jbbloom@arrl.org
American Radio Relay League |
225 Main St., Newington CT 06111 |

Date: 22 Jul 1993 07:43:51 -0700

From: network.ucsd.edu!not-for-mail@network.ucsd.edu

Subject: Super Morse problem in Windows

To: info-hams@ucsd.edu

In article <21870041@hplvec.LVLD.HP.COM> tccline@hplvec.LVLD.HP.COM (Ted Cline) writes:

>

>I did a test and "me too": My SM 3.16 works fine under DOS, but I also
>get clicks for dots under Windows 3.1 (machine = HP Vectra 486/66ST, DOS
>5.0).

Have you tried running the program in windows in the non-enhanced mode? I don't know if this will work, but it solves the cruddy audio problem when running the Microsoft Flight simulator under windows 3.1. Of course, you lose all the benefits of enhanced mode, but oh well...

Brent

Date: 22 Jul 93 09:17:29 GMT
From: ogicse!uwm.edu!cs.utexas.edu!not-for-mail@network.ucsd.edu
Subject: Super Morse problem in Windows
To: info-hams@ucsd.edu

>
>The newer version is available from wuarchive.wustl.edu as:
>mirrors/msdos/hamradio/sm404.zip
>

Is Super Morse available from any mail servers? I do not have FTP.
Thanks!

--
Joe Landis - Systems/Network Mgr. - N3PQY/AA
North American Drager, Telford, PA
Internet: landisj@drager.com

Date: 22 Jul 93 15:53:08 CDT
From: equalizer!timbuk.cray.com!hemlock.cray.com!cherry10!dadams@network.ucsd.edu
Subject: TS50 Illegal!
To: info-hams@ucsd.edu

In article 18016@news.duke.edu, jbs@ee.ee.duke.edu (Joe B. Simpson) writes:
|In article <1993Jul21.120648.20463@hemlock.cray.com> dadams@cray.com writes:

|>
|>I wish the rule were ammended to allow licenced Amateurs the privelege to
|>use 11 meters (as secondary users, of course) also allowing them to
|>contact other legitimate users of those frequencies. (In other words
|>I think that it is really silly to have to have two radios in the car
|>to work 10 and 11 meters. If the TS-50 can do both, why not allow it
|>to do so if the user is a licenced Ham as long as he abides the 4 watt
|>pep rule etc?

|
|Because the FCC correctly assumes that the hams would not stay within the
|4 watt output limit.

|
| -joe

Why? Do most hams violate all the other limits they have?

David, NOWWN/AA

November Zero Whiskey Whiskey November

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

-Sourdough and Ham-

- Minnesotans for Global Warming! -

(&gardner)

Date: Thu, 22 Jul 1993 22:23:20 GMT

From: europa.eng.gtefsd.com!howland.reston.ans.net!ux1.cso.uiuc.edu!

vixen.cso.uiuc.edu!uwm.edu!cs.utexas.edu!asuvax!ncar!mimbres.cs.unm.edu!bbx!

dthomas@uunet.uu.net

To: info-hams@ucsd.edu

References <2365@indep1.UUCP>, <1993Jul21.120648.20463@hemlock.cray.com>,

<18016@news.duke.edu>clar

Subject : Re: TS50 Illegal!

jbs@ee.ee.duke.edu (Joe B. Simpson) writes:

>the FCC correctly assumes that the hams would not stay within the

>4 watt output limit.

Scuse me? Then why don't they just "correctly" assume that hams will not stay within the prescribed limits associated with their licenses and just not issue them in the first place?

I doubt if very many die-hard radio bootleggers take the trouble to earn a ham license.

David

End of Info-Hams Digest V93 #892
